



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/618,102
Source: OIP
Date Processed by STIC: 2/28/2003

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/efb/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
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U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
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Revised 04/24/2003



OIPE

RAW SEQUENCE LISTING

DATE: 07/28/2003

PATENT APPLICATION: US/10/618,102

TIME: 13:06:35

Input Set : E:\Utsc755.app

Output Set: N:\CRF4\07282003\J618102.raw

3 <110> APPLICANT: LIN, EDWARD H.
 4 WU, XIFENG
 5 XIE, KEPING
 7 <120> TITLE OF INVENTION: QUANTITATIVE RT-PCR TO AC133 TO DIAGNOSE CANCER AND
 8 MONITOR ANGIOGENIC ACTIVITY IN A CELL SAMPLE
 10 <130> FILE REFERENCE: UTSC:755US
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/618,102
 13 <141> CURRENT FILING DATE: 2003-07-11
 15 <150> PRIOR APPLICATION NUMBER: 60/406,535
 16 <151> PRIOR FILING DATE: 2002-08-28
 18 <160> NUMBER OF SEQ ID NOS: 14
 20 <170> SOFTWARE: PatentIn Ver. 2.1
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 25 <213> ORGANISM: Artificial Sequence
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 38 <213> ORGANISM: Artificial Sequence
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 62 tcc ctg ttg ctg ctg ggg ctg tgc ggg aac tcc ttt tca gga ggg cag 103
 63 Ser Leu Leu Leu Leu Gly Leu Cys Gly Asn Ser Phe Ser Gly Gly Gln

pr 6-7

**Does Not Comply
Corrected Diskette Needed**

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68	25	30	35	
70	aca aat tat	gag acc caa gac tcc cat aaa gct	gga ccc att ggc att	199
71	Thr Asn Tyr	Glu Thr Gln Asp Ser His Lys	Ala Gly Pro Ile Gly Ile	
72	40	45	50	
74	ctc ttt gaa	cta gtg cat atc ttt ctc tat	gtg gta cag ccg cgt gat	247
75	Leu Phe Glu	Leu Val His Ile Phe Leu Tyr	Val Val Gln Pro Arg Asp	
76	55	60	65	70
78	ttc cca gaa	gat act ttg aga aaa ttc tta	cag aag gca tat gaa tcc	295
79	Phe Pro Glu	Asp Thr Leu Arg Lys Phe Leu	Gln Lys Ala Tyr Glu Ser	
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82	aaa att gat	tat gac aag cca gaa act gta	atc tta ggt cta aag att	343
83	Lys Ile Asp	Tyr Asp Lys Pro Glu Thr	Val Ile Leu Gly Leu Lys Ile	
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86	gtc tac tat	gaa gca ggg att att cta tgc	tgt gtc ctg ggg ctg ctg	391
87	Val Tyr Tyr	Glu Ala Gly Ile Ile Leu Cys	Cys Val Leu Gly Leu Leu	
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91	Phe Ile Ile	Leu Met Pro Leu Val Gly Tyr	Phe Phe Cys Met Cys Arg	
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94	tgc tgt aac	aaa tgt ggt gga gaa atg cac	cag cga cag aag gaa aat	487
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98	ggg ccc ttc	ctg agg aaa tgc ttt gca atc	tcc ctg ttg gtg att tgt	535
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106	gta aga acc	cgg atc aaa agg agt cgg aaa	ctg gca gat agc aat ttc	631
107	Val Arg Thr	Arg Ile Lys Arg Ser Arg Lys	Leu Ala Asp Ser Asn Phe	
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110	aag gac ttg	cga act ctc ttg aat gaa act	cca gag caa atc aaa tat	679
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114	ata ttg gcc	cag tac aac act acc aag gac	aag gcg ttc aca gat ctg	727
115	Ile Leu Ala	Gln Tyr Asn Thr Thr Lys Asp	Lys Ala Phe Thr Asp Leu	
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118	aac agt atc	aat tca gtg cta gga ggc gga	att ctt gac cga ctg aga	775
119	Asn Ser Ile	Asn Ser Val Leu Gly Gly Gly	Ile Leu Asp Arg Leu Arg	
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122	ccc aac atc	atc cct gtt ctt gat gag att	aag tcc atg gca aca gcg	823
123	Pro Asn Ile	Ile Pro Val Leu Asp Glu Ile	Lys Ser Met Ala Thr Ala	
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126	atc aag gag	acc aaa gag gcg ttg gag aac	atg aac agc acc ttg aag	871
127	Ile Lys Glu	Thr Lys Glu Ala Leu Glu Asn	Met Asn Ser Thr Leu Lys	
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134	aaa	act	agc	ctg	cgg	tca	tct	ctc	aat	gac	cct	ctg	tgc	ttg	gtg	cat	967
135	Lys	Thr	Ser	Leu	Arg	Ser	Ser	Leu	Asn	Asp	Pro	Leu	Cys	Leu	Val	His	
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138	cca	tca	agt	gaa	acc	tgc	aac	agc	atc	aga	ttg	tct	cta	agc	cag	ctg	1015
139	Pro	Ser	Ser	Glu	Thr	Cys	Asn	Ser	Ile	Arg	Leu	Ser	Leu	Ser	Gln	Leu	
140				315						320					325		
142	aat	agc	aac	cct	gaa	ctg	agg	cag	ctt	cca	ccc	gtg	gat	gca	gaa	ctt	1063
143	Asn	Ser	Asn	Pro	Glu	Leu	Arg	Gln	Leu	Pro	Pro	Val	Asp	Ala	Glu	Leu	
144				330					335					340			
146	gac	aac	gtt	aat	aac	gtt	ctt	agg	aca	gat	ttg	gat	ggc	ctg	gtc	caa	1111
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151	Gln	Gly	Tyr	Gln	Ser	Leu	Asn	Asp	Ile	Pro	Asp	Arg	Val	Gln	Arg	Gln	
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155	Thr	Thr	Thr	Val	Val	Ala	Gly	Ile	Lys	Arg	Val	Leu	Asn	Ser	Ile	Gly	
156	375					380					385				390		
158	tca	gat	atc	gac	aat	gta	act	cag	cgt	ctt	cct	att	cag	gat	ata	ctc	1255
159	Ser	Asp	Ile	Asp	Asn	Val	Thr	Gln	Arg	Leu	Pro	Ile	Gln	Asp	Ile	Leu	
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162	tca	gca	ttc	tct	gtt	tat	gtt	aat	aac	act	gaa	agt	tac	atc	cac	aga	1303
163	Ser	Ala	Phe	Ser	Val	Tyr	Val	Asn	Asn	Thr	Glu	Ser	Tyr	Ile	His	Arg	
164			410					415						420			
166	aat	tta	cct	aca	ttg	gaa	gag	tat	gat	tca	tac	tgg	tgg	ctg	ggg	ggc	1351
167	Asn	Leu	Pro	Thr	Leu	Glu	Glu	Tyr	Asp	Ser	Tyr	Trp	Trp	Leu	Gly	Gly	
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171	Leu	Val	Ile	Cys	Ser	Leu	Leu	Thr	Leu	Ile	Val	Ile	Phe	Tyr	Tyr	Leu	
172	440						445					450					
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175	Gly	Leu	Leu	Cys	Gly	Val	Cys	Gly	Tyr	Asp	Arg	His	Ala	Thr	Pro	Thr	
176	455				460					465					470		
178	acc	cga	ggc	tgt	gtc	tcc	aac	acc	gga	ggc	gtc	ttc	ctc	atg	gtt	gga	1495
179	Thr	Arg	Gly	Cys	Val	Ser	Asn	Thr	Gly	Gly	Val	Phe	Leu	Met	Val	Gly	
180				475					480					485			
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183	Val	Gly	Leu	Ser	Phe	Leu	Phe	Cys	Trp	Ile	Leu	Met	Ile	Ile	Val	Val	
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186	ctt	acc	ttt	gtc	ttt	ggg	gca	aat	gtg	gaa	aaa	ctg	atc	tgt	gaa	cct	1591
187	Leu	Thr	Phe	Val	Phe	Gly	Ala	Asn	Val	Glu	Lys	Leu	Ile	Cys	Glu	Pro	
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190	tac	acg	agc	aag	gaa	tta	ttc	cgg	gtt	ttg	gat	aca	ccc	tac	tta	cta	1639
191	Tyr	Thr	Ser	Lys	Glu	Leu	Phe	Arg	Val	Leu	Asp	Thr	Pro	Tyr	Leu	Leu	
192	520					525						530					
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248				745					750							755	
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251	Phe	Ser	Ile	Ser	Glu	Lys	Val	Ala	Ser	Cys	Lys	Pro	Val	Ala	Thr	Ala	
252				760												770	
254	cta	gat	act	gct	gtt	gat	gtc	ttt	ctg	tgt	agc	tac	att	atc	gac	ccc	2407
255	Leu	Asp	Thr	Ala	Val	Asp	Val	Phe	Leu	Cys	Ser	Tyr	Ile	Ile	Asp	Pro	
256	775					780					785					790	
258	ttg	aat	ttg	ttt	tgg	ttt	ggc	ata	gga	aaa	gct	act	gta	ttt	tta	ctt	2455
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264          810          815          820
266 gat tcg gag gac gtg tac gat gat gtt gaa act ata ccc atg aaa aat 2551
267 Asp Ser Glu Asp Val Tyr Asp Asp Val Glu Thr Ile Pro Met Lys Asn
268          825          830          835
270 atg gaa aat ggt aat aat ggt tat cat aaa gat cat gta tat ggt att 2599
271 Met Glu Asn Gly Asn Asn Gly Tyr His Lys Asp His Val Tyr Gly Ile
272          840          845          850
274 cac aat cct gtt atg aca agc cca tca caa cat tga tagctgatgt 2645
275 His Asn Pro Val Met Thr Ser Pro Ser Gln His
276 855          860          865
278 tgaaactgct tgagcatcag gatactcaaa gtggaaagga tcacagattt ttggtagttt 2705
280 ctgggtctac aaggactttc caaatccagg agcaacgcca gtggcaacgt agtgactcag 2765
282 gcgggcacca aggcaacggc accattggtc tctgggtagt gctttaagaa tgaacacaat 2825
284 caggttatag tccatggtcc atcactattc aaggatgact ccctcccttc ctgtctattt 2885
286 ttgtttttta cttttttaca ctgagtttct atttagacac tacaacatat ggggtgtttg 2945
288 ttcccattgg atgcatttct atcaaaactc tatcaaatgt gatggctaga ttctaacata 3005
290 ttgccatgtg tggagtgtgc tgaacacaca ccagtttaca ggaaagatgc attttgtgta 3065
292 cagtaaacgg tgtatatacc ttttgttacc acagagtttt ttaaacaaat gagtattata 3125
294 ggacttttct ctaaattgagc taaataagtc accattgact tcttggtgct gttgaaaata 3185
296 atccattttc actaaaagtg tgtgaaacct acagcatatt cttcacgcag agattttcat 3245
298 ctattatact ttatcaaaga ttggccatgt tccacttggg aatggcatgc aaaagccatc 3305
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310 acaaggtaaa tattcatttg cttcaggagt ttcattgttg atctgtcatt atcaaaagtg 3665
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319 <210> SEQ ID NO: 4
320 <211> LENGTH: 865
321 <212> TYPE: PRT
322 <213> ORGANISM: Homo sapiens
324 <400> SEQUENCE: 4
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328 20 25 30
329 Asn Tyr Glu Leu Pro Ala Thr Asn Tyr Glu Thr Gln Asp Ser His Lys
330 35 40 45
331 Ala Gly Pro Ile Gly Ile Leu Phe Glu Leu Val His Ile Phe Leu Tyr
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10/6/8,102

6

<210> SEQ ID NO 5

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<212> TYPE: DNA

<213> ORGANISM: Artificial Sequence

<220> FEATURE:

<223> OTHER INFORMATION:

<400> SEQUENCE: 5

agccttcac cacagatgct

see p. 7 for error explanation

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/618,102

DATE: 07/28/2003
TIME: 13:06:36

Input Set : E:\Utsc755.app
Output Set: N:\CRF4\07282003\J618102.raw

Use of <220> Feature (NEW RULES):

Sequence(s) are missing the <220> Feature and associated headings.
Use of <220> to <223> is MANDATORY if <213> ORGANISM is "Artificial Sequence" or "Unknown". Please explain source of genetic material in <220> to <223> section (See "Federal Register," 6/01/98, Vol. 63, No. 104, pp.29631-32) (Sec.1.823 of new Rules)

Seq#:5

error explanation

VERIFICATION SUMMARYPATENT APPLICATION: **US/10/618,102**

DATE: 07/28/2003

TIME: 13:06:36

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L:12 M:270 C: Current Application Number differs, Replaced Current Application Number

L:443 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:5, <213>

ORGANISM:Artificial Sequence

L:443 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:5, <213>

ORGANISM:Artificial Sequence

L:443 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:5, Line#:443